

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004869

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01N31/22

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 717 378 A (PERRAULT ET AL) 5 January 1988 (1988-01-05) the whole document -----	1-36
X	WO 90/00572 A (NELLCOR INCORPORATED) 25 January 1990 (1990-01-25) page 2 examples 54-59 abstract -----	1-36
X	US 6 391 626 B1 (ADAMS CARL A ET AL) 21 May 2002 (2002-05-21) column 1, lines 45-65 column 2, line 55 - column 3, line 27 column 4, lines 5-18 examples 1,2 ----- -/-	1-36

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention

\*X\* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
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\*&\* document member of the same patent family

Date of the actual completion of the international search

26 April 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 146 070 A (COLLINS GALEN F) 25 August 1964 (1964-08-25) the whole document -----	1-36
P,X	EP 1 374 918 A (ILLINOIS TOOL WORKS INC) 2 January 2004 (2004-01-02) page 2, column 35 – page 3 paragraphs '0016! – '0018! page 6 -----	1-36
X	US 4 943 364 A (KOCH ET AL) 24 July 1990 (1990-07-24) the whole document -----	1-36

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/GB2004/004869

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 4717378	A	05-01-1988	NONE		
WO 9000572	A	25-01-1990	AU EP WO	3965389 A 0406334 A1 9000572 A1	05-02-1990 09-01-1991 25-01-1990
US 6391626	B1	21-05-2002	AU DE EP JP WO	2721200 A 60013613 D1 1208220 A1 2003507077 T 0114583 A1	19-03-2001 14-10-2004 29-05-2002 25-02-2003 01-03-2001
US 3146070	A	25-08-1964	GB	922606 A	03-04-1963
EP 1374918	A	02-01-2004	US CA EP US	2003235654 A1 2432748 A1 1374918 A1 2004241862 A1	25-12-2003 24-12-2003 02-01-2004 02-12-2004
US 4943364	A	24-07-1990	US	4801655 A	31-01-1989